

PARKE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Date: April 2, 2004

RICHARD R. HEUSER

Serial No.

10/687,783

Our Docket No.: HEU 309

Filed

October 17, 2003

Group Art Unit: 3738

For

STENT WITH COVERING AND DIFFERENTIAL DILATION

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

DECLARATION UNDER 37 C.F.R. § 1.131

I, Richard R. Heuser, MD, declare as follows:

- 1. I am the inventor of U.S. patent application Scrial No. 10/687,783, filed October 17, 2003, and entitled STENT WITH COVERING AND DIFFERENTIAL DILATION.
- 2. I completed invention of the STENT WITH COVERING AND DIFFERENTIAL DILATION as recited in the claims of Ser. No. 10/687,783 in this country earlier than May 20, 1999. My conception and reduction to practice is demonstrated by confidential descriptions and drawings that I created. A copy of my descriptions and drawings, which I created and dated earlier than May 20, 1999 are attached as Exhibit 1. The dates in the descriptions and drawings, which have been redacted, are all earlier than May 20, 1999.

- 3. Several examples of stents in accordance with my descriptions and drawings were made for me and used experimentally in patients prior to May 20, 1999.
- 4. I declare that all statements made herein of my knowledge are true and all statements made on information and belief are believed to be true. These statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under § 1001 of Title 18 of the United States Code. I understand that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date

Richard R. Heuser, MD

FEB 28 2005 W



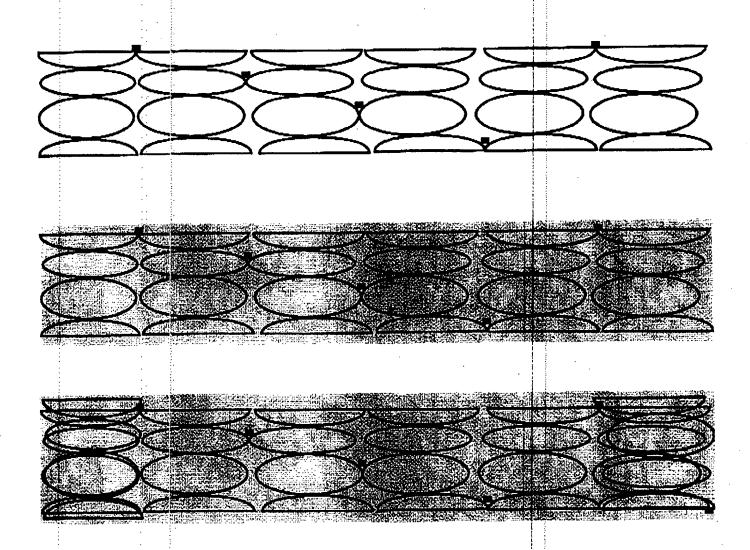
In Mid came up with an deal blowing this Ark deal of the metal and the PTFE scaled on both sides of the metal.

Richard R. Heuser, MD

DATE:

Witness: Mew A. Kremper

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PRESENTED BY DR. RICHARD HEUSER

Exhibit 1 Serial No. 10/687,783 Page 2 of 4 Description: AVE ePTFE Stent/Graft

A balloon expandable stent/graft with a sinusoidal-ring design and 316L stainless steel segments. Individual segments are 3mm long and have an ellipto-rectangular cross-section with a thickness of 0.007". The graft material is ePTFE that fully encapsulates the stent to provide up to 100% coverage. Longitudinal flexibility is excellent and is slightly less than, but comparable to, the GFX. Shortening on expansion is less than 2%. Sheathless and pre-mounted, it has targeted diameters of 4.0mm-5.5mm in 0.5mm increments and lengths of 21mm, 30mm and 39mm. For a 5.5mm device the non-expanded profile target is 8F. Intended indication is for SVG Bypass.

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AVE ePTFE Stent/Graft Technical Specifications

• Material Composition

Graf: Expanded Polytetrafluoroethylene (cPTFE)

Stent: 316L Stainless Steel

• Degree of Radio-opacity: Greater than GFX (Moderate)

• Surface Area: 100% (Can be Less with Added Macro-Porosity)

• Strut Design: Sinusoidal Ring with 3mm Length

• Strut Thickness: 0.007"

• Non-Expanded Profile: Target is 8F for a 5.5mm Device

Longitudinal Flexibility: Less than but Comparable to GFX

• Shortening Upon Expansion: 2% or Less

• Targeted Expanded Diameters: 4.0mm, 4.5mm, 5.0mm and 5.5mm

• Targeted Lengths: 21mm, 30mm and 39mm

• Indication: SVG Bypass

• Delivery System: Balloon Expandable, Pre-Mounted With No External Sheath

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